

DETERMINATION OF ALTERNATIVE LAND USE TREATMENTS

Cooperator: _____ County: _____ Acres: _____

Field No.: _____ Soil Type _____ Tract No: _____ "T": _____

Prepared By: _____ Date: _____

Checked By: _____ Date: _____

Current Land Use:

Water Erosion	R	K	LS	C	P	Avg. T/A "A"
Wind Erosion	I	K	C	L	V	Avg. T/A "E"

Ephemeral _____ Gully _____ Total _____

Alternative #1:

Water Erosion	R	K	LS	C	P	Avg. T/A "A"
Wind Erosion	I	K	C	L	V	Avg. T/A "E"

Ephemeral _____ Gully _____ Total _____

Estimated cost for treatment \$ _____ per acre.

Alternative #2:

Water Erosion	R	K	LS	C	P	Avg. T/A "A"
Wind Erosion	I	K	C	L	V	Avg. T/A "E"

Ephemeral _____ Gully _____ Total _____

Estimated cost for treatment \$ _____ per acre.

Alternative #3:

Water Erosion	R	K	LS	C	P	Avg. T/A "A"
Wind Erosion	I	K	C	L	V	Avg. T/A "E"

Ephemeral _____ Gully _____ Total _____

Estimated cost for treatment \$ _____ per acre.

NOTE: Where applicable, other erosion may be calculated on reverse (or SCS ENG.-28-29) and entered above.

CONCENTRATED FLOW, EPHEMERAL, OR OTHER EROSION NOT MEASURED BY USLE

Survey Party

$$\text{Formula: } E = D \times \frac{(W + W_1)}{2} \times \frac{(V)}{2000} \times \frac{1}{Y} \times L$$

Note keeper _____

Rod Carrier _____

Chain Carrier _____

Date _____

E = Annual Erosion in Tons

D = Depth (feet)

W = Top Width (feet)

W₁ = Bottom Width (feet)

L = Length (feet)

V = Unit Weight of Soil (lb/Ft³)

2000 = Pounds per Ton

Y = No. Years

Channel, gully or Road (No.)	Depth (ft.) (D)	Top Width (ft.) (W)	Bottom Width (ft.) (W ₁)	Length (ft.) (L)	Age (yrs.) (Y)	Soil Texture	Dry Density lbs./cu.ft. (V)	Soil Loss ton/yr. (E)
TOTAL								

_____ Total (E) / _____ no. checked = _____ average loss x _____ no. in field = _____

(Average loss per channel times the number in the field equals the total loss to be entered on the reverse side as needed.)

Calculated by _____ Date _____

Checked by _____ Date _____